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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,560	10/27/2003	Dan Schlager	SCHL-PAR2	9163
27627	7590 04/07/2005		EXAMINER	
ROBERT BUCKLEY, PATENT ATTORNEY P.O BOX 272 LIVERMORE, CA 94551-0272			TANG, SON M	
			ART UNIT	PAPER NUMBER
			2632	

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Summan	10/695,560	SCHLAGER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Son M Tang	2632					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 27 Oc	ctober 2003.						
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3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-18 is/are pending in the application.							
· - · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-18</u> is/are rejected.	· · ———						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	•						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the c							
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	or the certified copies flot receive	u.					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da						
Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>01/06/05</u> .		atent Application (PTO-152)					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 12 recites the limitation "parachute harness" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Piri et al. [US 6,545,606; Piri].

Regarding to claim 18: Piri discloses a self-contained, self-locating alarm system remote unit (PLB) for use with a parachute having means 210 for activating the remote unit [as shown in Fig. 1-2, col. 11, lines 60-67 to col. 12, lines 1-3], Piri does not specifically disclosing that the (PLB) is activated by deployment of the parachute. However, Piri stating that after aircrew ejected from an aircraft about 10-15 seconds PLB module 204 activates, that means after aircrew being ejected for about 10-15 seconds the parachute is being deployed, therefore, it would have been obvious of one having ordinary skill in the art at the time the invention was

made to recognize that, when aircrew is ejected from an aircraft the parachute will deploy automatic or manually which activated the PLB unit.

5. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Piri et al. in view of Hoffman et al. [US 5,742,233; Hoffman].

Regarding to claim 11: Piri discloses an alarm system remote unit (PLB) equipped parachute [shown in Fig. 1-2, col. 11, lines 60-67 to col. 12, lines 1-3], Piri does not specifically disclosing a base station that displaying navigational information from remote system. Hoffman teaches a base station 80 includes a display for displaying navigational information from remote unit 20 [as shown in Fig. 2 and 5, and cited in Abstract]. It would have been obvious of one having ordinary skill in the art at the time of the claimed invention to have a display at a base station for displaying remote unit navigational information as suggested by Hoffman into the system of Piri, for the benefit of easy to identify the location and reduce tracking time.

TM 4-4-05 6. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Piri et al. [US 6,545,606; Piri] in view of Penny, Jr. et al. [US 5,414,432; Penny].

Regarding to claim 1: Piri discloses a personal alarm system remote unit 101 equipped parachute, comprising:

- -a GPS provides positioning information of remote unit 101, which is a navigational information [see Abstract lines 24-26 and col. 9, lines 64-66];
 - -a radio transmitter;
 - -means (sensor 210) for activating a transmission [see col. 11, lines 60-67];

-a parachute [col. 12, lines 1-3] containing the navigational receiver (GPS), radio transmitter and the transmission activating means (sensor 210) [as shown in Fig. 1-2], Piri does not specifically disclosing that a radio transmitter connected for transmitting the navigational information. It is clear in the art that, GPS system uses for determining the remote unit position/navigation. Penny teaches a position locating transceiver system comprising a navigational receiver (68) and transceiver (62) for transmitting the navigational information [as cited in Fig. 2, col. 2, lines 17-23]. It would have been obvious of one having ordinary skill in the art at the time of the claimed invention, to transmit GPS navigational information as suggested by Penny into the system of Piri, for the advantage of faster locating and accurate.

Regarding to claims 2-3: Penny further discloses that the transmission of navigational information is voice activated or panic button [col. 6, lines 55-59].

Regarding to claim 4: Piri further discloses that the personal locator beacon (PLB) activates when the aircrew is ejected from an aircraft [as cited in col. 11, lines 59-68]. However, Piri stating that after aircrew ejected from an aircraft about 10-15 seconds PLB module 204 activates, that means after aircrew being ejected for about 10-15 seconds the parachute is being deployed, therefore, it would have been obvious of one having ordinary skill in the art at the time the invention was made to recognize that, when aircrew is ejected from an aircraft the parachute will deploy automatic or manually which will activate the PLB unit.

Regarding to claims 5-7: Piri and Penny discloses all the limitation as described above, they fail to specify that the receiver is a hybrid GPS. It is clear that hybrid GPS receiver commonly known as satellites networking for position error correction, therefore it would have

been obvious to one having ordinary skill in the art at the time the invention was made to recognize that, to implement hybrid GPS receiver for enhancing precisely position.

Regarding to claim 8: Piri and Penny discloses all the limitation as described above, Penny further teaches the navigational receiver 68 provides demodulated GPS data [col. 6, lines 4-8] and the radio transmitter transmits the demodulated GPS data (local position) and precise time-of -day (TOD) information [see col. 8, lines 50-53].

Regarding to claim 9: Piri and Penny discloses all the limitation as described above, they fail to specify that navigational receiver calculates time delay of arrival location information. It is clear in skill of the artisan that, the location information being determined based upon the time delay of arrival signal at the receiver from the satellites, therefore it would have been obvious of one having ordinary skill in the art to recognize that, navigational receiver provides calculated time delay of arrival location information in order to determine a location of remote unit.

Regarding to claim 10: Penny further teaches the radio transmitter is a cellular telephone [cited at col. 4, lines 20-35].

Regarding to claim 12: Piri and Penny disclose all the limitation as described above, Piri further discloses that the alarm system remote unit PLB is fitted on the carrier pack for a parachute, which is obviously be able to detachable from the parachute harness.

Regarding to claim 14: Piri further discloses the alarm system remote unit is shock and water resistant housing [cited in col. 9, lines 16-18].

7. Claims 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Piri et al. in view of Penny, Jr. et al., and further in view of Mohan [US 6,121,922].

Regarding to claim 13: Piri and Penny discloses all the limitation as described above, except for not specifically teach a GPS location display on the remote unit. Mohan teaches a tracking system comprising a GPS location display on the remote unit [as shown in Fig. 4, col. 2, lines 39-43 and col. 6, lines 16-36]. It would have been obvious of one having ordinary skill in the art at the time of the claimed invention to have a display on the remote unit as suggested by Mohan into the system of combination above, so user is being able to see his/her location.

8. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Friddle, II et al. [US 4,659,042] in view of Piri et al. [US 6,545,606].

Regarding to claim 15: Friddle et al. disclose a parachute for use with a self-locating personal alarm system comprising:

- -a parachute having a riser [12] is a portion of a canopy harness [Fig. 1];
- -the harness including a means [11C and 11] for attaching a self-contained self-locating personal alarm system;
- -a means for activating an attached remote unit met by a reed switch [28] of Fig. 2 and col. 5, lines 39-55. Friddle et al. does not specify that the remote unit is activating when the parachute is deployed. Piri et al. teach a personal locator beacon (PLB) system, and shows that (PLB) activates after the aircrew member is ejected from an aircraft for about 10-15 seconds [as cited in col. 11, lines 59-68], although Piri et al. does not specifically stating that (PLB) is

activated by deployment of the parachute, it is clear that the parachute has to be deployed after the aircrew member being ejected. Therefore, it would have been obvious of one having ordinary skill in the art to recognize that, when aircrew is ejected from an aircraft the parachute will deploy automatic or manually, that will activate the (PLB).

Regarding to claims 16-17: Friddle et al. further disclose wherein the attaching means is a pocket [11] and means is a fastener (met by stitch [16B]) disposed on the harness, and the remote unit is placed within the pocket [see Fig. 1].

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gerald Rabow [US 3,626,416], Nance et al. [US 5,979,829], Beason et al. [US 6,373,430], Neher [US 5,905,461], Bickley et al. [US 5,748,147], Loomis [US 6,430,416] and Schlager et al. [US 5,963,130].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son M Tang whose telephone number is (571)272-2962. The examiner can normally be reached on 4/9 First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J Wu can be reached on (571)272-2964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/695,560

Art Unit: 2632

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Son Tang

Thomas J. Mullen, Jr. Primary Examiner Art Unit 2632